

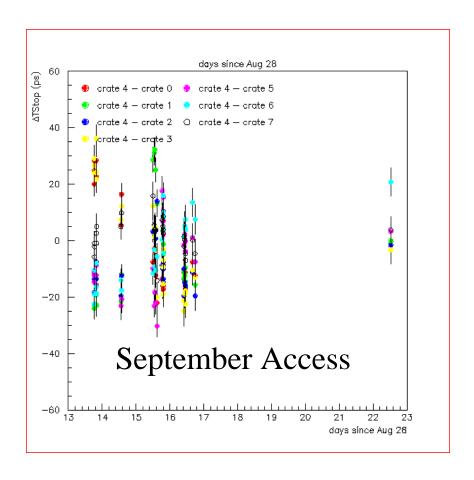
Each channel of CCFM measure for crate i (i=0,7):

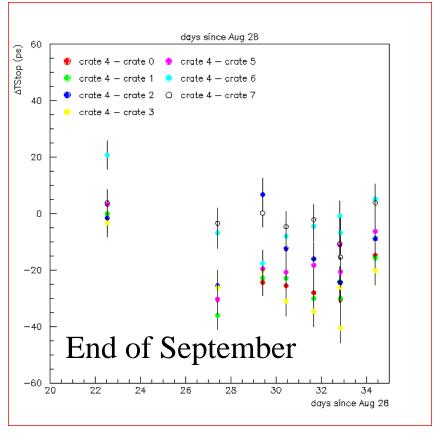
$$T_i^{return}$$
- $T^{stop} = \Delta T_i$

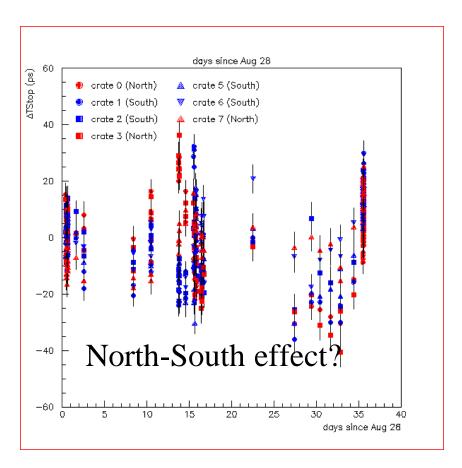
For
$$i \neq j$$
 $\Delta T_{i,j} =$

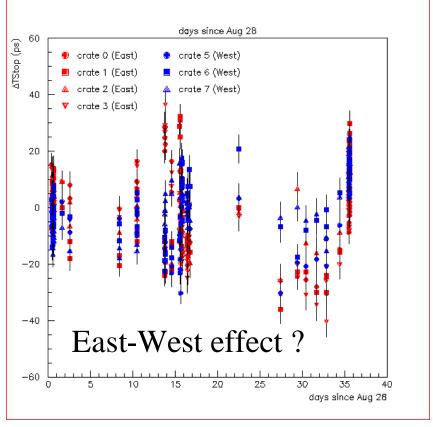
$$T_i^{return}$$
- T_j^{return} - $<\Delta T_{i,j}>$ vs time is shown.

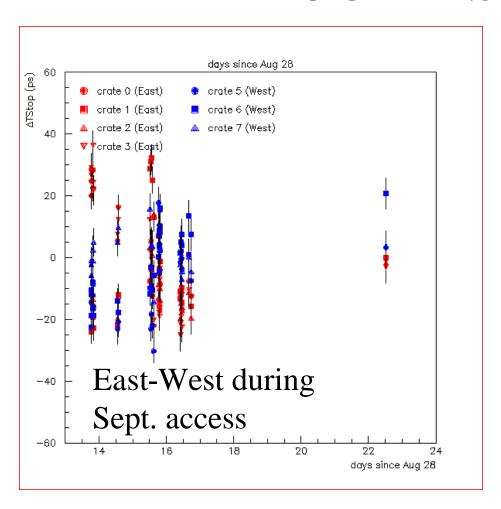
If no external effect detected this should have been a constant.









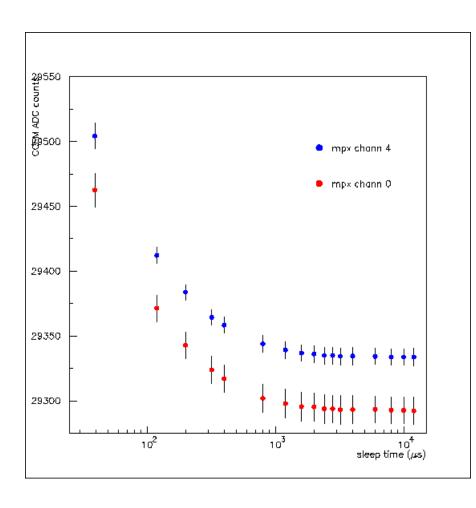


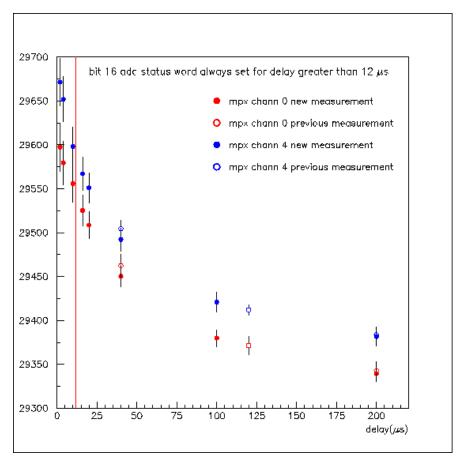
- •Provided the 12ps/count is confirmed by dedicated measurement to be taken during shutdown preliminary analysis say crate to crate stop signal variation is within spec.
- •Some hints of an effect of temperature differences between East and West side of the detector.

CCFM software status

- VxWorks version exists and tested (need some cleanup)
- Need to understand which is the correct time delay to use reading out the board(see plots) and the source of the effect observed (Italians investigating this)
- When code is in FER should start analyzing this data more consistently (need help!)

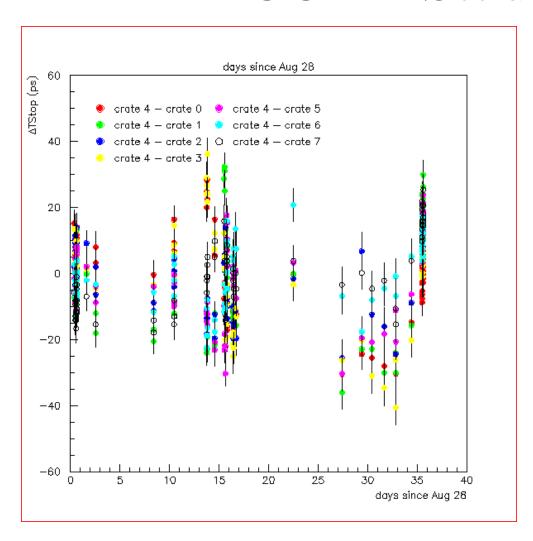
CCFM mean ΔT_i as a function of delay





Conclusions

- Software to be included in FER in O(1 week)
- During the shutdown we propose to add a cable of known length to one of the most accessible LCF to make sure we understand what a "count" is
- People in Italy investigating this "delay" dependence of the CCFM measurements and working on a new design for the CCFM board.



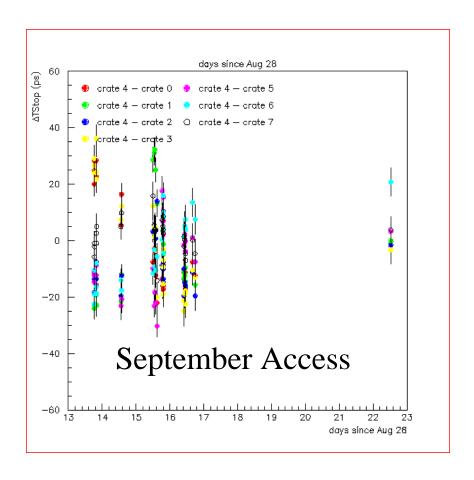
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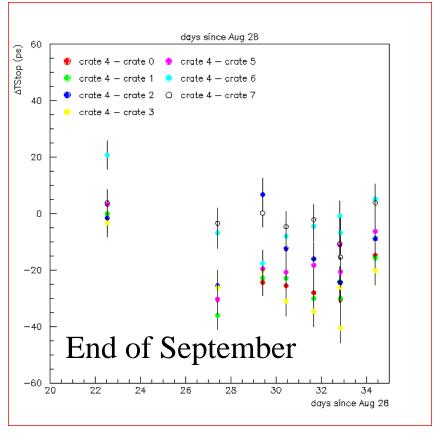
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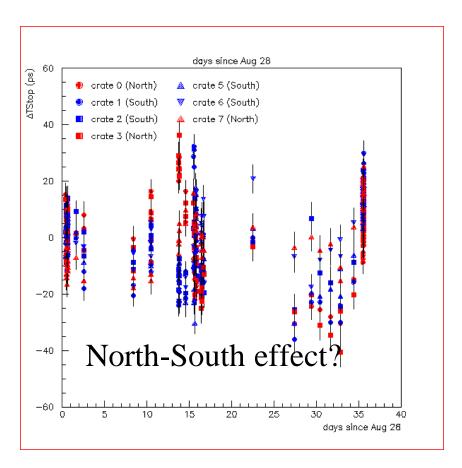
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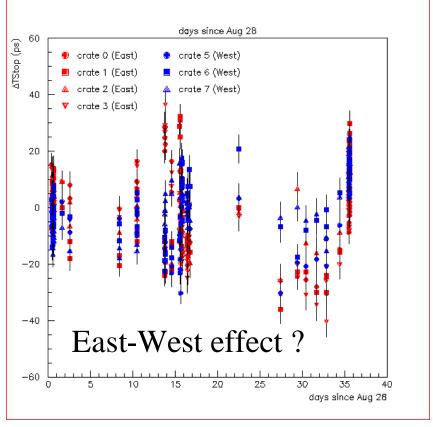
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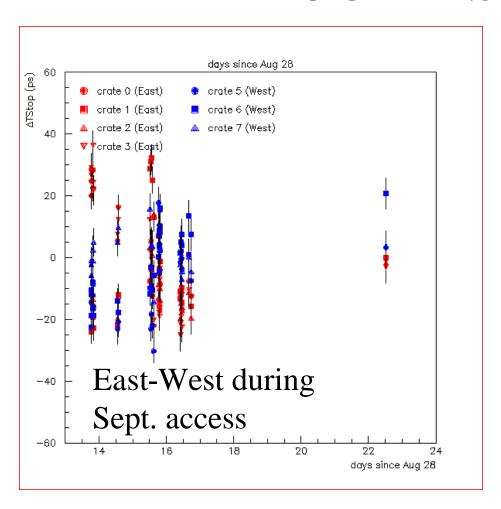
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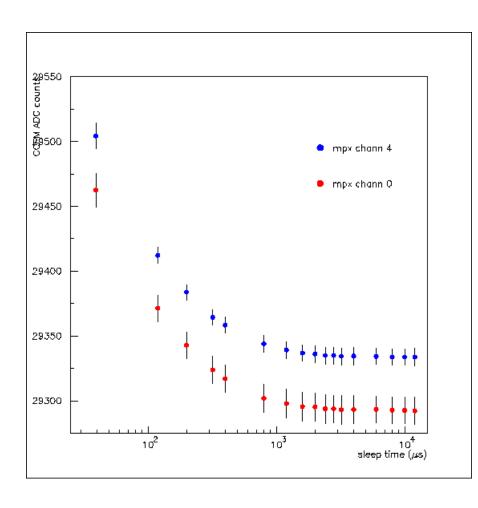


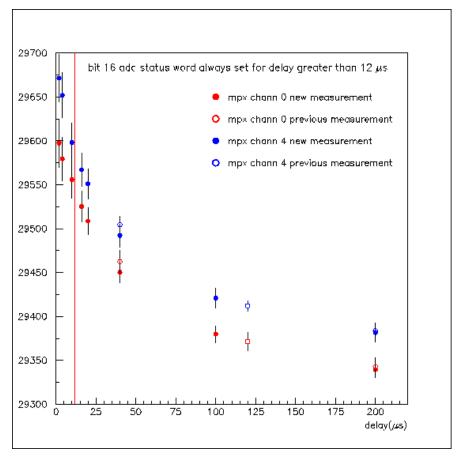
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